

IN THE CLAIMS

35. (Twice Amended) An elongated multi-layer tubing for connection to a motor vehicle system to contain and convey fluids containing hydrocarbons, the multi-layer tubing comprising:

a first layer disposed radially innermost the first layer having an inner face capable of prolonged exposure to fluids containing hydrocarbons and an outer face spaced a predetermined thickness from the inner surface, the first layer composed of an extrudable melt-processible thermoplastic material; and

at least one additional disposed radially outward of the first layer and in overlying relationship thereto, said at least one additional layer composed of an extrudable melt-processible thermoplastic material and connected to the first layer in an essentially permanent manner wherein the melt-processible thermoplastic material of at least one additional layer contains at least one of polyamides and thermoplastic elastomers, or at least one of copolymers of substituted alkenes and vinyl alcohol, copolymers of unsubstituted alkenes and vinyl alcohol, copolymers of substituted alkenes and vinyl acetate and copolymers of unsubstituted alkenes and vinyl acetate.

36. (Previously presented) The elongated multi-layer tubing of Claim 35 wherein the melt-processible thermoplastic material of said at least one additional layer is selected from group consisting of copolymers of substituted alkenes and vinyl alcohol, copolymers of unsubstituted alkenes and vinyl alcohol, copolymers of substituted alkenes and vinyl acetate, copolymers of unsubstituted alkenes and vinyl acetate, and mixtures thereof.

37. (Previously Presented) The elongated multi-layer tubing of Claim 36 wherein the melt processible thermoplastic material is resistant to permeation by an interaction with short chain aromatic and aliphatic compounds.

38. (Previously Presented) The elongated multi-layer tubing of Claim 36 wherein the substituted or unsubstituted alkene in the copolymer of the melt-processible thermoplastic material has less than four carbon atoms.

39. (Previously Presented) The elongated multi-layer tubing of Claim 38 wherein the alkene is ethylene.

40. (Previously Presented) The elongated multi-layer tubing of Claim 39 wherein the thermoplastic material is a copolymer of ethylene and vinylalcohol having an ethylene content between about 27% and about 35%.

41. (Previously Presented) The elongated multi-layer tubing of Claim 36 wherein the thermoplastic material of the first layer is selected from the group consisting of fluoroplastic polymers, melt-processible polyamides, thermoplastic elastomers and mixtures thereof.

42. (Previously amended) An elongated tubing capable of conveying hydrocarbons, the tubing comprising:

a plurality of concentrically disposed polymeric layers, each concentrically disposed polymeric layer connected to at least one other concentrically disposed polymeric layer in an essentially permanent manner, each concentrically disposed polymeric layer composed of an extrudable, melt-processible thermoplastic material,

wherein the plurality of concentrically disposed polymeric layers include a first layer disposed radially innermost of the plurality of concentrically disposed polymeric layers and at least one additional layer disposed radially outward thereof and in essentially permanent contact therewith,

wherein at least one of the plurality of concentrically disposed polymeric layers contains a melt-processible thermoplastic material selected from the group consisting of copolymers of substituted alkenes and vinyl alcohol, copolymers of unsubstituted alkenes and vinyl alcohol, copolymers of substituted alkenes and vinyl acetate, copolymers of unsubstituted alkenes and vinyl acetate, and mixtures thereof, and wherein,

at least one additional layer of the plurality is composed of a thermoplastic material which is chemically dissimilar to said at least one of the plurality of concentrically disposed polymeric layers.

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43. (Previously Presented) The elongated tubing of Claim 42 wherein at least one additional layer is composed of a melt-processible thermoplastic material selected from the group consisting of polyamides, thermoplastic elastomers, thermoplastic polyesters, fluoroplastics, and mixtures thereof,

44. (Previously Presented) The elongated tubing of Claim 43 wherein the thermoplastic polyester is selected from the group consisting of polybutylene terephthalate, polyethylene terephthalate, and mixtures thereof.

45. (Previously Presented) The elongated tubing of Claim 43 wherein the polyamide is selected from the group consisting of Nylon 6, Nylon 6.6, Nylon 11, Nylon 12 and mixtures thereof.

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